

**IN THE CLAIMS:**

1-29. (Canceled)

30. (Currently Amended) An isolated polynucleotide sequence as set forth in  
~~nucleic acid molecule comprising~~ SEQ ID No: 1 that encodes a *Lawsonia intracelluaris*  
flhB polypeptide.

31-37. (Canceled)

38. (Currently Amended) A plasmid of pGTE#2 flhB {AGAL Accession No.  
NM00/16477}.

39. (Currently Amended) A recombinant vector capable of replication in a host  
cell, wherein said vector comprises the isolated polynucleotide sequence as set forth in  
~~nucleic acid of~~ claim 30.

40-42. (Canceled)

43. (Original) A host cell comprising the recombinant vector of claim 39.

44. (Original) The host cell of claim 43 wherein said host cell is a bacterium.

45-50. (Canceled)